

Risk-based Screening Process for Surface Water
Gold King Mine Response
August 11, 2015

Detected metals in surface water were compared with site-specific background concentrations. Background values were defined for the Silverton, CO area and a second background data set were defined for Durango from Bakers Bridge south to the Durango municipal water intake. Any detection that exceeded background was then compared with screening criteria for recreational water use and for Colorado criteria for agricultural use which includes both ingestion by livestock and irrigation uses. These screening values are provided in the table below.

DRAFT Water Screening Values (ug/L)			
Chemical	Surface Water Recreational Use		Agriculture (30 day) (Colorado)
Aluminum	170000		
Antimony			
Arsenic	50		100
Barium	33,000		
Beryllium	330		100
Cadmium	83		10
Calcium			
Chromium	210,000		100
Cobalt	50		
Copper	6700		200
Iron	120,000		
Lead	200		100
Magnesium			
Manganese	7800		200
Mercury			
Molybdenum			
Nickel Sol Salts	3300		200
Potassium			
Selenium			20
Silver			
Sodium			
Thallium	1.7		
Vanadium	830		

Zinc	50,000	2,000
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